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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/945,200	08/30/2001		Martin Morris	WIDC-008/00US	4498	
7590 06/21/2005				EXAMINER		
Kevin J. Zimr	mer		BURD, KEVIN MICHAEL			
Cooley Godwa	rd LLP					
Five Palo Alto	Square		ART UNIT	PAPER NUMBER		
3000 El Camin	o Real		2631			
Palo Alto, CA	94306-215	55	DATE MAILED: 06/21/2003	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	ation No.	Applicant(s)					
		09/945	5,200		MORRIS, MARTIN				
	Office Action Summary	Exami	ner	Art Unit	1				
		Kevin N	Л. Burd	2631					
	The MAILING DATE of this commu	nication appears on	the cover sheet v	vith the correspondence a	ddress				
	or Reply								
THE - External control	HORTENED STATUTORY PERIOD IS MAILING DATE OF THIS COMMUN ensions of time may be available under the provision of SIX (6) MONTHS from the mailing date of this come period for reply specified above is less than thirty (0) period for reply is specified above, the maximum is ure to reply within the set or extended period for reply received by the Office later than three months need patent term adjustment. See 37 CFR 1.704(b)	IICATION. Is of 37 CFR 1.136(a). In no imunication. (30) days, a reply within the statutory period will apply and by will, by statute, cause the	event, however, may a statutory minimum of th d will expire SIX (6) MC application to become A	a reply be timely filed hirty (30) days will be considered time DNTHS from the mailing date of this ABANDONED (35 U.S.C.§ 133).	ely. communication.				
Status									
1)⊠	Responsive to communication(s) fil	ed on <i>05 April 2005</i>	;						
2a)□		2b)⊠ This action is							
3)									
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	tion of Claims								
4)🛛	☐ Claim(s) 1-6,8-15,17-21 and 25-33 is/are pending in the application.								
,—	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)[Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-6,8-15,17-21 and 25-33</u> is/are rejected.								
7)	Claim(s) is/are objected to.			,					
8)□	Claim(s) are subject to restri	iction and/or election	n requirement.						
Applicat	tion Papers								
9)[The specification is objected to by the	ne Examiner.							
10)[D)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any obje								
	Replacement drawing sheet(s) including								
11)[The oath or declaration is objected t	to by the Examiner.	Note the attache	ed Office Action or form P	TO-152.				
Priority	under 35 U.S.C. § 119								
12)	Acknowledgment is made of a claim	for foreign priority	under 35 U.S.C.	§ 119(a)-(d) or (f).					
	☐ All b)☐ Some * c)☐ None of:				•				
	1.☐ Certified copies of the priority	documents have b	een received.						
	2. Certified copies of the priority	documents have b	een received in	Application No					
	3. ☐ Copies of the certified copies			n received in this Nationa	ıl Stage				
	application from the Internation								
* ;	See the attached detailed Office action	on for a list of the ce	ertified copies no	t received.					
Attachmer	•								
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (I	PTO-948)	4) ∐ Interview Paper No	Summary (PTO-413) (s)/Mail Date					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 o	r PTO/SB/08)	5) Notice of	Informal Patent Application (PT	O-152)				
Pape	er No(s)/Mail Date		6)	·					

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1. This office action, in response to the amendment filed 4/5/2005, is a non-final office action.

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Response to Arguments

2. Applicant's arguments, see pages 10 and 11, filed 4/5/2005, with respect to the rejections of claims 1-33 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, new grounds of rejection is made in view of Haartsen (US 2002/0187799) in view of Ho (US 2002/0034172) further in view of the instant application's disclosed prior art.

Claim Objections

3. Claim 1 is objected to because of the following informalities: the term "the second wireless device" in line 12 should be changed to "a second wireless device". Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-6, 8-15, 17-21 and 25-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haartsen (US 2002/0187799) in view of Ho (US 2002/0034172) further in view of the instant application's disclosed prior art.

Regarding claims 1, 8, 12, 17, 18, 21, 27, 30, 32 and 33, Haartsen discloses a wireless communication device and method of using a wireless communication device (abstract). A receiver is operable to receive an incoming transmission (paragraph 0064). A transmitter is operable to send an outgoing transmission over a first range (paragraph 0063). An error correction coding circuit is provided to vary the level of the error correction coding applied to the data within the outgoing transmission (paragraphs 0061 and 0063). The describe link adaptation scheme of altering the coding rate may be used to automatically adjust communication link parameters to provide a desired range (paragraph 0058).

Haartsen does not disclose a portion of the outgoing transmission is reserved to notify a second wireless device of a change in the level of error correction coding. Ho discloses, in figure 1B, a FEC value 114 is transmitted and provides information on the forward error correction scheme (paragraphs 0086 and 0093). This allows the second wireless device to know the level of coding for the FEC fields 310 and 412 (paragraph 0093) and allows the error correction to begin immediately. It would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of Ho into the wireless method and device of Haartsen for the reason stated above.

The combination of Haartsen and Ho do not disclose the reserved portion of the transmission is found in a dedicated inquiry access codes (DIAC). The instant

application's disclosed prior art states according to the Bluetooth specification, DIACs are specifically chosen to tolerate a higher bit error rate than a body of a message, such that they can be detected beyond a range at which a Bluetooth transmission normally would be corrupted (paragraph 1027). For this reason, it would have been obvious for one of ordinary skill in the art at the time of the invention to combine the DIAC of the instant application's disclosed prior art to contain the FEC value 114 of the combination of Haartsen and Ho.

Regarding claims 2-5, the receiver measures a performance parameter and sends information to the transmitter to change the user rate (coding rate) (Haartsen, paragraph 0017). The receiver will decode the following transmission at this new error correction-coding rate.

Regarding claim 6, the wireless communication system utilizes Bluetooth specifications for transmitting and receiving data (Haartsen, paragraph 0009).

Regarding claims 9, 26, 29 and 31, data transmitted following the Bluetooth specification has data comprising a digitally encoded data packet including an access code portion, a header portion and a payload portion.

Regarding claim 10, the describe link adaptation scheme of altering the coding rate described above may be used to automatically adjust communication link parameters to provide a desired range (paragraph 0058).

Regarding claims 11, 24 and 25, the FEC value 114 is received and indicates the level of coding for the FEC fields. This will show an increase, decrease or the same level of coding.

Regarding claims 13 and 14, a signal strength indicator is monitored in the receiver to determine if additional error correction coding is necessary (Haartsen, paragraph 0017) to increase the range of the transmission (paragraph 0058). A signal strength of zero would indicate the signal is not detected and a change to the error correction coding is necessary.

Regarding claim 15, symbols are re-encoded using the increased coding (Haartsen, paragraph 0042).

Regarding claims 19 and 20, the transmitting device searches for available receivers to receive the transmitted data.

Regarding claim 28, greater error correction coding capacity is included (Haartsen, paragraph 0041).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Thursday 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Burd 6/15/2005

KEVIN BURD